

Dr. Johannes Korbmacher

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Education

- 2016 **PhD in Philosophy**
Summa cum laude
LMU Munich
- 2011 **MA in Philosophy**
Minors: English, Early Modern and Modern History
University of Münster

Employment History

- 2021–present **Assistant professor (UD1)**
Department of Philosophy and Religious Studies
Utrecht University
- 2018–2021 **Assistant professor (UD2)**
Department of Philosophy and Religious Studies
Utrecht University
- 2016–2018 **Lecturer (Docent)**
Department of Philosophy and Religious Studies
Utrecht University
- 2011–2016 **PhD Fellow**
Munich Center for Mathematical Philosophy
LMU Munich

Areas of Specialization

- Philosophical and mathematical logic
- Philosophy of science
- Philosophy of mathematics
- Metaphysics

Areas of Competence

- Logic-based AI
- Philosophy of language
- Epistemology

Languages

- German (C2)
- English (C2)
- Dutch (C1)
- Italian (B1)

Publications

Citations: 295

h-index: 9

Source: <https://scholar.google.com>

- 2023 “Proof Systems for Exact Entailment”
Review of Symbolic Logic 16(4): 1260–1295.
- 2023 “The Lambda Calculus” (with Jesse Alama)
The Stanford Encyclopedia of Philosophy, Fall 2018 edition;
substantially revised for the Winter 2023 edition, edited by Edward N. Zalta
and Uri Nodelman.
- 2021 “Multiple Models, One Explanation” (with Chiara Liscandra)
Journal of Economic Methodology 28(2): 186–206.
- 2020 “Truthmakers and Normative Conflicts” (with Albert Anglberger)
Studia Logica 108(1): 49–83.
- 2019 “What’s Hot in Mathematical Philosophy: Truthmaker Semantics”
The Reasoner 13(4): 27–28.
- 2018 “What Are Structural Properties?” (with Georg Schiemer)
Philosophia Mathematica 26(3): 295–323.
- 2018a “Axiomatic Theories of Partial Ground I: The Base Theory”
Journal of Philosophical Logic 47(2): 161–191.
- 2018b “Axiomatic Theories of Partial Ground II: Partial Ground and
Hierarchies of Typed Truth”
Journal of Philosophical Logic 47(2): 193–226.
- 2016 “An Exact Truthmaker Semantics for Permission and Obligation”
(with Albert J. J. Anglberger and Federico L. G. Faroldi)
In Olivier Roy, Allard Tamminga, and Malte Willer, eds.,
*Deontic Logic and Normative Systems: 13th International Conference,
DEON 2016*, 16–31. College Publications.
- 2016 *Properties Grounded in Identity: A Study of Essential Properties*
PhD dissertation, LMU München: Faculty of Philosophy,
Philosophy of Science and the Study of Religion.
- 2015 “Yet Another Puzzle of Ground”
Kriterion 30(2): 1–10.
- 2014 “Dynamisierte Feldtheorie” (with Martin Pleitz and Julia Schmidt)
In Attila Karakuş, Martin Pleitz, and Christian Weidemann, eds.,
*Freie Subjekte in der Welt der Physik. Die analytische
Transzendentalphilosophie von Peter Rohs in der Diskussion*,
133–156. Mentis Verlag.

Working papers

(*Papers with finished drafts, presented at conferences.*)

“No Variables”

“Simplification of Disjunctive Antecedents in Hyperintensional Counterfactual Logic”

(with Giorgio Lenta, University of Pavia)

“The Algebra of Exact Entailment”

(with Simone Picenni, University of Amsterdam)

“Full Equivalence”

(with Mark Jago, University of Nottingham)

Talks

2026 *No Variables*

Invited

May 7, Logic Colloquium, MCMP Munich, LMU Munich

2025 *No Variables*

Contributed

September 18, TF Colloquium, Utrecht University

September 9, GAP.12, University of Düsseldorf

May 19, OZSW 2025, TU Delft

2025 *The Grain of Truthmaker Propositions*

Invited

July 29, *Advances in Truthmaker Semantics 2*, LMU Munich

2024 *The Granularity of Inquisitive and Truthmaker Content*

Invited

November 15, *DIP Colloquium*, ILLC, University of Amsterdam

June 7, *Information-based Semantics and Related Frameworks*,

Czech Academy of Sciences, Prague

2023 *The Limits of Artificial Mathematical Intelligence*

Invited

January 16, Logic Café Colloquium, University of Vienna

2022 *Hyperintensional Proof Theory*

Invited

- September 20, *Proofs and Formalization*, Utrecht University
- 2022 *Parts and Probability*
- Invited**
- September 16, *Hyperintensional Formal Epistemology*,
Humboldt University of Berlin
- 2022 *The Algebra of Exact Entailment* (with Simone Picenni)
- Invited**
- August 22–23, *Truthmaking, Semantical Grounding, and Paradoxes*,
University of Bristol
- 2022 *Exact Truthmaker Semantics for Modal Logic* (with Giuliano Rosella)
- Invited**
- June 19, *Truthmaker Semantics: What, What for and How?*,
University of Geneva
- 2021 *The Algebra of Exact Entailment* (with Simone Picenni)
- Invited**
- May 17, Seminar on Mathematical Philosophy
- 2021 *Granularity Theory*
- Invited**
- March 18, London Group of Formal Philosophy, University of London
- 2020 *Studying Exact Truthmaker Semantics via the Logic of Exact Entailment*
- Invited**
- November 25, Seminar on Explanatory Inference, University of Louvain-la-Neuve
- 2018 *Multiple Models, One Explanation* (with Chiara Lisciandra)
- Contributed**
- October 3, *Multiple Models*, Helsinki
- 2018 *The Logic of Free Choice Permission* (with Albert Anglberger)
- Invited**
- November 15, LIRa, ILLC, University of Amsterdam
- Contributed**
- November 10, OZSW 2018, University of Twente
September 17–20, GAP.10, University of Cologne
- 2018 *Tableaux for the Logic of Exact Entailment*
- Contributed**

September 17–20, GAP.10, University of Cologne

2018 *Elusive Knowledge Hyperintensionalized* (with Janneke van Lith)

Contributed

September 17–20, GAP.10, University of Cologne

2018 *Tableaux for Exact Entailment*

Invited

March 28, Amsterdam Metaphysics Seminar, University of Amsterdam

March 15, *The Logic and Metaphysics of Ground*, University of Glasgow

2017 *Truthmakers and Normative Conflicts* (with Albert Anglberger)

Invited

December 15, *Hyperintensional Logics and Truthmaker Semantics*,
University of Ghent

2017 *Tableaux for the Logic of Exact Entailment*

Invited

December 15, *Hyperintensional Logics and Truthmaker Semantics*,
University of Ghent

2017 *Ex Pluribus Unum: How Many Models Support One Hypothesis*
(with Chiara Lisciandra)

Invited

November 21, TP-Colloquium, Utrecht University

Contributed

September 9, EPSA 2017, University of Exeter

2017 *Truth-Maker Bayesianism. Theory and Applications*

Contributed

November 10, OZSW 2017, Utrecht University

2017 *Structural and Logical Properties*

Contributed

June 21, SILFS 2017, University of Bologna

2017 *Truth-Maker Bayesianism*

Invited

May 11, Munich Center for Mathematical Philosophy

2016 *An Exact Truthmaker Semantics for Explicit Permission and Obligation*
(with Albert Anglberger and Federico Faroldi)

Contributed

July 18, DEON 2016

- 2016 *An Exact Truthmaker Semantics for Explicit Permission and Obligation*
(with Albert Anglberger)

Invited

April 4, Tilburg University

- 2016 *Exact Truthmaker Semantics for Propositional Modal Logic(s)*

Invited

March 31, GroLog, University of Groningen

- 2016 *Truthmakers and Mathematics*

Invited

January 22, *The Metaphysical 'Because' and the Foundations of Mathematics*,
University of Hamburg

- 2015 *Hyperintensional Deontic Logic* (with Albert Anglberger)

Invited

December 15, University of Bayreuth

November 26, Deontic Logic and Ethics, Venice

- 2015 *Toward Axiomatic Theories of Ground*

Invited

September 18, *Logical and Metaphysical Perspectives on Grounding*,
University of Osnabrück

- 2015 *Yet Another Puzzle of Ground*

Contributed

September 4, SoPhiA, University of Salzburg

- 2015 *What Are Structural Properties?*

Contributed

August 3, Congress of Logic, Methodology and Philosophy of Science,
affiliated session *Mathematical Objectivity by Representation*,
University of Helsinki

- 2014 *Mathematical Explanations and Nomological Ground* (with Lorenzo Casini)

InvitedOctober 23–24, *Explanation Beyond Causation*, MCMP Munich

- 2014 *How to Distinguish Necessarily Coextensive but Distinct Properties*

Contributed

September 15, GAP.9, University of Osnabrück

2014 *On the Semantics of (Iterated) Ground*

Invited

September 9, *Phloxshop VI — Logics and (their) Grounds*,
University of Hamburg

2014 *What Are Structural Properties?* (with Georg Schiemer)

Invited

July 8, Symposium on the Foundations of Mathematics,
Kurt Gödel Research Center, Vienna

Contributed

May 29, *Philosophy of Mathematics. Objectivity, Cognition and Proof*,
Università Vita-Salute San Raffaele, Milan

2013 *Proof Theory for the Propositional Logic of Ground*

Invited

August 23, *Groundedness in Semantics and Beyond*, University of Oslo

2013 *Mathematical Metaphysics*

Contributed

September 12, Workshop on Mathematical Philosophy, SoPhiA 2013, Salzburg

2013 *Sequent Calculus for the Logic of Ground*

Invited

July 12, 1st MCMP Munich–Buenos Aires Workshop, MCMP Munich

2012 *Essence and Identity. A Note on Essential Properties and Criteria of Identity*

Contributed

September 19, GAP.8, University of Konstanz

2010 *Ante-rem Structuralism and the Ontological Argument*

Contributed

July 24, Structure and Identity Conference, University of Bristol

2009 *Das Benacerraf-Dilemma in der Philosophie der Mathematik*

Invited

December 1, Interdisziplinärer Arbeitskreis Logik, Argumentation,
Wissenschaftstheorie, University of Siegen

Service to the Profession

2026–present **Associate Editor**

Philosophical Logic

Diamond open-access journal founded after the collective resignation of the editorial board of the *Journal of Philosophical Logic*.

2022–2026 **Associate Editor**

Journal of Philosophical Logic

Springer; Q1 in Philosophy.

Referee for *Analysis*, Cambridge University Press, *Dialectica*, *The European Journal for the Philosophy of Science*, *Erkenntnis*, FNRS - Fonds de la Recherche Scientifique (Franco-Belgian National Science Fond), *The Journal of Philosophical Logic*, *Kriterion*, *Linguistics and Philosophy*, *The Logic Journal of the IGPL*, *Philosopher's Imprint*, *Philosophical Studies*, *Philosophical Quarterly*, *The Review of Symbolic Logic*, *Studia Logica*, *Synthese*, and the Swiss National Science Foundation.

Professional Memberships

Gesellschaft für analytische Philosophie (GAP)

Nederlandse Onderzoekschool Wijsbegeerte (OZSW)

Deutsche Gesellschaft für Philosophie (DGPhil)

De Nederlandse Vereniging voor Logica & Wijsbegeerte der Exacte Wetenschappen (VvL)

Workshop and Conference Organization

2023 *Advances in Truthmaker Semantics 1*

Conference, co-organized with Kit Fine, Mark Jago, and Ethan Russo
June 5–7, Villa La Pietra, NYU Florence, Italy

2020 *European Congress of Analytic Philosophy (ECAP) 10*

Congress, local organizing committee
August 24–28

2018 *Exploring Hyperintensional Semantics*

Workshop, co-organized with Janneke van Lith and Bjørn Jespersen
November 23–24

2015 *Logical and Metaphysical Perspectives on Grounding*

Workshop, co-organized with Jan Plate and Norbert Gratzl
September 18

Summer Schools

2026 *Object Theory Summer School with Ed Zalta*

Organizer and lecturer, together with Ed Zalta

OZSW summer school, 3 ECTS, Utrecht University Campus

June 15–17

2019 *Summer School on Truthmaker Semantics*

Invited lecturer, together with Kit Fine, Mark Jago, and

Friederike Moltmann

University of Hamburg

Textbooks

2024–present **Logical Methods for AI**

Open-access online textbook and course platform for *Logical Methods for AI I / Logische Methoden voor KI I*, Utrecht University.

Covers logic and AI, formal languages, valid inference, Boolean algebra, Boolean satisfiability, conditionals, proof systems, first-order logic, many-valued logic, probability, and logic-based learning.

Includes textbook chapters, slides, exercises, and assignments.

<https://logicalmethods.ai>

2016–2023 **Inleiding Logica**

Open-access textbook and course materials for *Inleiding Logica* (KI1V13001), Bachelor Artificial Intelligence, Utrecht University.

Developed for large-cohort introductory logic teaching in the AI curriculum; includes lecture notes/source material, slides, exercises, and course materials.

<https://github.com/UtrechtUniversity/KI1V13001-Inleiding-Logica>

Teaching Qualifications

2022 **University Qualification in English-medium Instruction (UQEMI/BKE)**

Utrecht University

2018 **University Teaching Qualification (UTQ/BKO)**

Utrecht University

Teaching Grants

2024 Interdisciplinary Education Incentive Fund (IDO)

Logische Methoden voor Artificial Intelligence

Utrecht University

Amount: **24.000 EUR** for teaching buy-out

- Course development
- Curriculum innovation
- Leadership of small team

2023 Human-centered Artificial Intelligence (HAI). Small Grants

Introduction to Logical Methods for AI.

Utrecht University

Amount: **4.000 EUR** for teaching buy-out

- Course development
- Development of teaching goals
- Textbook development

Teaching Awards

2017 “Pluim” from the student union AI Incognito

Utrecht University

Teaching Coordination

Program-level

2018-present Program Coordination (team member)

Bachelor “Artificial Intelligence (AI)”

Utrecht University

- Coordination of AI **tutoring program** (2018-present)
- Coordination of AI **admissions** (2019–2020) and **matching** (2018, 2021–2022)
- Coordination of AI **open days** (2022-present)
- Leading small to medium-sized teams of teachers and student assistants
- Interface with administration and support staff
- Liaise with alumni

Course-level

- 2024–present **Logical Methods for AI I** (KI1V24001, **Logische Methoden voor KI I**)
Bachelor “Artificial Intelligence (AI)”
 Utrecht University
- Size: 100–150 students
 Language: Dutch
- Course coordination
 - Leading small team (6–8 people)
 - Innovative, interdisciplinary education: <https://logicalmethods.ai>
 - Course inception, development, and curriculum integration
- 2016–2023 **Advanced Logic** (FI3V14008, **Voortgezette Logica**)
 2024–present as **Logical Methods in Philosophy** (FI3V24001, **Logische methoden in de Filosofie**)
Bachelor “Philosophy”
 Utrecht University
- Size: 15–20 students
 Language: English
- Course design and development
 - Innovative teaching concepts
 - Outstanding evaluations: 5/5 course satisfaction
- 2016–2023 **Introduction to Logic** (KI1V13001, **Inleiding Logica**)
Bachelor “Artificial Intelligence (AI)”
 Utrecht University
- Size: 150–400 students
 Language: Dutch
- Course coordination
 - Leading medium-sized team (8–15 people)
 - Course development and curriculum integration
 - Development of teaching materials: 400 page textbook
 - Improved course satisfaction: from 3.4/5 (2020–2021) to 4.1/5 (2023–2024)
- 2019–2020 **Science and Epistemology I for AI** (KI3V14003, **Kennis en Wetenschap voor KI**)
Bachelor “Artificial Intelligence (AI)”

Utrecht University

Size: 150–400 students

Language: Dutch

- Lecturing, workgroups, exam design

Other Courses

2022–2023 **Master Tutorial** *Hyperintensional metaphysics*

RMA “Philosophy”

Utrecht University

2016–2019 **Topics in Epistemology and Philosophy of Science**

RMA “Philosophy”

Utrecht University

2016–2018 **Philosophy of Mind**

Bachelor “Philosophy”

Utrecht University

2016–2017 **Philosophy of Language**

Bachelor “Philosophy”

Utrecht University

Philosophy of science

Bachelor “Studium generale”

Utrecht University

2015–2016 **Truthmaker Semantics**

RMA “Logic and Philosophy of Science”

LMU Munich

2012–2013 **What is Analytic Philosophy?**

BA “Philosophy”

LMU Munich

2010–2011 **Possibility and Necessity in Language and Logic**

Bachelor “Philosophy”

University of Münster

Introduction to the Philosophy of Mathematics

Bachelor “General Studies”

University of Münster

Paradoxes

Bachelor “General Studies”

University of Münster
Philosophy of Linguistics
Bachelor “General Studies”
University of Münster

Thesis Supervision

Bachelor Over 60 theses as first or second reader

BA Philosophy, BSc Artificial Intelligence, BSc Mathematics and applications
Utrecht University

Masters Over 10 theses as first or second reader

RMA “Philosophy”, MSc “Artificial Intelligence”
Utrecht University

MPhil “Philosophy”
King’s College London (*external examiner*)

MSc “Master of Logic”
University of Amsterdam (*external examiner*)

PhD Member of 3 PhD committees in philosophy

Vita Saitta, Giorgio Lenta
Northwest Italy Philosophy PhD Program (FINO)

Colin Elliot
University of Tilburg

Teaching Committee Work

2024–present **Chair of the Exam Committee (EC)**

Bachelor “Artificial Intelligence (AI)”
Utrecht University

2022–present **Member of the Work-pressure Committee**

Faculty of Humanities
Utrecht University